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Find the *Newport 6505 / 8505* at our website: *Click HERE*

Laser Diode Driver (LDD) Module Specifications

	8505	8510	8530	8560
Laser Output				
Output Current Range (mA)	0–500	0–1000	0–3000	0–6000
Output Current Resolution (mA)	0.0076	0.0153	0.0458	0.0916
Output Current Accuracy[2]	±(0.03% + 15 µA)	±(0.03% + 30 µA)	±(0.03% + 90 µA)	±(0.03% + 180 µA)
Compliance Voltage (V)	7	5	5	5
Temperature Coefficient (ppm FS/°C)	<50			
Short-Term Stability (1 h) (ppm FS)	<10			
Long-Term Stability (24 h) (ppm FS)	<50			
Noise/Ripple (rms) (µA)[1]				
Hi BW	<8.0	<10	<15	<25
Lo BW	<4.0	<8.0	<10	<25
Current Limit				
Range (mA)	0–500	0–1000	0–3000	0–6000
Resolution (mA)	1			
Accuracy (mA)	±2	±2	±4	±6
Internal Function Generator				
Waveforms	Sinewave, Squarewave			
Frequency Range[3]	200 Hz –300 kHz			
Squarewave Duty Cycle	50 ±5%			
Independent Output Set Points	I_{max}, I_{min}			
Analog Modulation				
Input Range, Input Impedance	0–10 V, 10 kΩ			
Transfer Function (mA/V)	50	100	300	600
Bandwidth (3dB ±10%), Hi (APC mode only) (kHz)	DC to 350	DC to 250	DC to 100	DC to 100
Bandwidth (3dB ±10%), Lo (APC mode) (kHz)	DC to 10			
Bandwidth (3dB ±10%) (APC mode) (Hz)	DC to 20			
Photodiode Input				
Monitor Current Range (mA)	0–5	0–5	0–20	0–20
Monitor Current Stability (24 h)	±0.02% FS			
Monitor Current Accuracy[2]	±(0.004% + 0.5 µA)	±(0.004% + 0.5 µA)	±(0.004% + 1 µA)	±(0.004% + 1 µA)
Temperature Coefficient	<0.02% FS/°C			
Photodiode Reverse Bias	0–5 V ±10%			
Measurement Display				
Output Current Range (mA)	0–500.00	0–1000.0	0–3000.0	0–6000.0
Output Current Resolution (mA)	0.01	0.1	0.1	0.1
Output Current Accuracy[2]	±(0.02% + 20 µA)	±(0.02% + 200 µA)	±(0.02% + 200 µA)	±(0.02% + 200 µA)
Forward Voltage Range (V)	0.000–7.000	0.000–5.000	0.000–5.000	0.000–5.000
Forward Voltage Resolution (mV)	1			
Forward Voltage Accuracy[2]	±(0.005%+1 mV)			
Photodiode Current Range (µA)	5–5000	5–5000	15–20,000	15–20,000
Photodiode Current Resolution (µA)	0.1			
Photodiode Current Accuracy[2]	±(0.01% + 0.5 µA)	±(0.01% + 0.5 µA)	±(0.01% + 1 µA)	±(0.01% + 1 µA)
PD Response Range (µA/mW)	0.00–600.00			
PD Response Resolution (µA/mW)	0.01			
Optical Power Range (mW)	0.00–500.00	0.00–1000.00	0.00–3000.00	0.00–6000.00
Optical Power Resolution (mW)	0.01	0.1	0.1	0.1

1) True rms, 3 Hz–300 kHz, 1/2 FS, resistive load
2) ± (x% Reading + Fixed Error)
3) Output current may begin to roll-off at higher frequencies

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